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1 Legacy object modeling speeds software integration

W. B. Noffsinger, Robert Niedbalski, Michael Blanks, Niall Emmart

 December 1998 **Communications of the ACM**, Volume 41 Issue 12

 Full text available: [pdf\(620.20 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

2 A framework for encapsulating card-oriented, interactive, legacy applications

Al Butkus, Barbara L. Mitchell

 January 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 1

 Full text available: [pdf\(453.89 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)


Over the last several years Lockheed Martin has invested IR&D funds to explore lowering the cost of ownership of Command and Control systems for DoD software intensive systems. Two key technologies that address this issue are developing software components that can be reused across a family of systems within the command and control domain and methods for reusing legacy system applications. This paper describes how these two approaches have been merged using Object Oriented Technology to ...

3 Migration of legacy web applications to enterprise Java™ environments net.data® to JSPTM transformation

Yu Ping, Jianguo Lu, Terence C. Lau, Kostas Kontogiannis, Tack Tong, Bo Yi

 October 2003 **Proceedings of the 2003 conference of the Centre for Advanced Studies conference on Collaborative research**

 Full text available: [pdf\(165.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


As Web technologies advance, the porting and adaptation of existing Web applications to take advantage of the advancement has become an issue of increasing importance. Examples of such technology advancement include extensible architectural designs, more efficient caching protocols, and provision for customizable dynamic content delivery. This paper presents an experience report on the migration of legacy IBM® Net.Data® based applications to new enterprise Java

Keywords: Java 2 Enterprise Edition (J2EE™), JavaBeans, JavaServer pages, Net.Data, SQL, migration, model-view-controller (MVC), transformation

4 Spatio-temporal database support for legacy applications

Michael Böhlen, Christian S. Jensen, Bjørn Skjellaug

 February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing**

 Full text available: [pdf\(955.80 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


Keywords: SQL, language design, legacy software, multi-dimensional data, spatial, spatio-temporal data, temporal

5 Session 3: Techniques and applications of software evolution: Recycling software components extracted from legacy programs

Harry M. Sneed

September 2001 **Proceedings of the 4th international workshop on Principles of software evolution**

Full text available:  pdf(690.20 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper depicts yet another approach to cope with legacy software systems, a struggle that began already in the early 1980's with the development of the first restructuring tools and has continued throughout the last 20 years with only modest success. In the meantime, reengineering technology has subsided and is now in the process of being replaced by new techniques aimed towards the reuse of existing software in modern distributed architectures. Such reuse presupposes a recycling process to ...

Keywords: measurement, reengineering, reuse, slicing, software recycling, wrapping

6 Session: Migrating legacy engineering applications to Java

Tom Dickens

November 2002 **OOPSLA 2002 Practitioners Reports**

Full text available:  pdf(2.31 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Boeing Company, like many other engineering-centric companies, has a large base of legacy applications written in FORTRAN and C. In today's computing environment, maintaining and evolving these applications is becoming difficult. One such Boeing application, the Aero Grid and Paneling System (AGPS), is a 3D-geometry surface modeling tool. In the fall of 2001 we completed the migration of the AGPS source code from 300,000 lines of mixed C and FORTRAN to 150,000 lines of 100% Java. The migrati ...

Keywords: C, FORTRAN, Java, conversion, legacy, portability

7 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

8 A formal approach for designing CORBA-based applications

Alberto Coen-Porisini, Matteo Pradella, Matteo Rossi, Dino Mandrioli

April 2003 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,

Volume 12 Issue 2

Full text available:  pdf(478.44 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The design of distributed applications in a CORBA-based environment can be carried out by means of an incremental approach, which starts from the specification and leads to the high-level architectural design. This article discusses a methodology to transform a formal

specification written in TRIO into a high-level design document written in an extension of TRIO, named TRIO/CORBA (TC). The TC language is suited to formally describe the high-level architecture of a CORBA-based application. As a r ...

Keywords: CORBA, architectural design, control systems, formal methods, frameworks, object orientation, supervision, temporal logic

9 Mars: runtime support for coordinated applications

Neal Sample, Carl Bartlett, Matthew Haines

February 1999 **Proceedings of the 1999 ACM symposium on Applied computing**

Full text available:  [pdf\(1.02 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



Keywords: MARS, legacy code, multidisciplinary application, runtime system

10 On-line e-wallet system with decentralized credential keepers

Stig Frode Mjølsnes, Chunming Rong

February 2003 **Mobile Networks and Applications**, Volume 8 Issue 1

Full text available:  [pdf\(240.23 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



We propose a generalization of the architecture of an electronic wallet, as first developed in the seminal European research project CAFE. With this model you can leave most of the content of your electronic wallet at the security of your residential electronic keeper, while roaming with your favorite mobile terminals. Emerging mobile handsets with both short range Bluetooth and cellular GPRS communications provide a sufficient communication platform for this electronic wallet architecture. Howe ...

Keywords: digital credentials, e-wallet architecture, mobile commerce, payment protocols, privacy

11 MPEG-4: an object-based multimedia coding standard supporting mobile applications

Atul Puri, Alexandros Eleftheriadis

June 1998 **Mobile Networks and Applications**, Volume 3 Issue 1

Full text available:  [pdf\(747.80 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)



The ISO MPEG committee, after successful completion of the MPEG-1 and the MPEG-2 standards is currently working on MPEG-4, the third MPEG standard. Originally, MPEG-4 was conceived to be a standard for coding of limited complexity audio-visual scenes at very low bit-rates; however, in July 1994, its scope was expanded to include coding of scenes as a collection of individual audio-visual objects and enabling a range of advanced functionalities not supported by other standards. One of the ke ...

12 A SMART scheduler for multimedia applications

Jason Nieh, Monica S. Lam

May 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 2

Full text available:  [pdf\(570.87 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



Real-time applications such as multimedia audio and video are increasingly populating the workstation desktop. To support the execution of these applications in conjunction with traditional non-real-time applications, we have created SMART, a Scheduler for Multimedia And Real-Time applications. SMART supports applications with time constraints, and provides dynamic feedback to applications to allow them to adapt to the current load. In addition, the support for real-time applications is integrat ...

Keywords: Scheduling, multimedia, proportional sharing, real-time

13 Trunking of TDM and narrowband services over IP Networks

James Aweya

January 2003 **International Journal of Network Management**, Volume 13 Issue 1Full text available:  pdf(418.58 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The recent interest in IP as the vehicle for transporting TDM and narrowband services stems from the possibility of using a common transport network for voice, video, and data, and the flexibility with which new services can be introduced. A key step in the evolution of networks towards a 'broadband' IP-based environment is the 'graceful' interworking of the IP networks with the existing networks and services, particularly with the circuit switched telephone network. A & I ...

14 Automatic derivation of loop termination conditions to support verification

Daniel Powell

January 2004 **Proceedings of the 27th conference on Australasian computer science - Volume 26**Full text available:  pdf(268.06 KB)Additional Information: [full citation](#), [abstract](#), [references](#)

This paper introduces a repeatable and constructive approach to the analysis of loop progress and termination conditions in imperative programs. It is applicable to all loops for which a variant function can be defined using only loop guard variables. The approach involves the algorithmic derivation of loop progress and termination conditions directly from the code itself. The derivation of these conditions has been automated in a prototype tool. The conditions yielded by the automated algorithm ...

Keywords: automated formal methods, loop termination, verification**15 Network layer access control for context-aware IPv6 applications**Adrian Friday, Maomao Wu, Joe Finney, Stefan Schmid, Keith Cheverst, Nigel Davies
July 2003 **Wireless Networks**, Volume 9 Issue 4Full text available:  pdf(3.57 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As part of the Lancaster GUIDE II project, we have developed a novel wireless access point protocol designed to support the development of next generation mobile context-aware applications in our local environs. Once deployed, this architecture will allow ordinary citizens secure, accountable and convenient access to a set of tailored applications including location, multimedia and context based services, and the public Internet. Our architecture utilises packet marking and network level packet ...

Keywords: authentication, mobile IPv6, public access point, security, wireless Internet**16 An evaluation of Web services in the design of a B2B application**

K. Hogg, P. Chilcott, M. Nolan, B. Srinivasan

January 2004 **Proceedings of the 27th conference on Australasian computer science - Volume 26**Full text available:  pdf(206.36 KB)Additional Information: [full citation](#), [abstract](#), [references](#)

This paper describes the architectural considerations in the design of a web services B2B application. A component design is presented which exploits the postulated advantages of object oriented and web services technologies. Our main focus has been to design interim measures to overcome the limitations of current web services architecture and standards. We discuss our interim design with reference to our approach to load balancing and the design of application based error handling to support bo ...

Keywords: e-commerce, services oriented computing, web services

17 Generic fuzzy reasoning nets as a basis for reverse engineering relational database applications 

Jens H. Jahnke, Wilhelm Schäfer, Albert Zündorf

November 1997 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 6th European conference held jointly with the 5th ACM SIGSOFT international symposium on Foundations of software engineering,**

Volume 22 Issue 6

Full text available:  pdf(1.45 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



18 Web and e-business application: A cost-oriented methodology for the design of web based IT architectures 

Danilo Ardagna, Chiara Francalanci

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Full text available:  pdf(628.40 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper proposes a design methodology of Web-based IT architectures tying organizational requirements to technical choices and costs. Information system design and optimum sizing is the result of a reconciliation of several conflicting requirements, including technical performance and costs. Web-based IT architectures involve a number of design choices with significant cost implications: the adoption of thin clients executing Web applications remotely, the choice of the number of architecture ...

Keywords: IT architectures, cost minimization, web architectures



19 Same words, different meanings: are basic IS/IT concepts our self-imposed Tower of Babel? 

Steven Alter

May 2000 **Communications of the AIS**

Full text available:  pdf(349.97 KB)

Additional Information: [full citation](#), [references](#), [citations](#)



20 The impact of object technology on commercial transaction processing 

Edward E. Cobb

August 1997 **The VLDB Journal — The International Journal on Very Large Data Bases,**
Volume 6 Issue 3

Full text available:  pdf(649.17 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Businesses today are searching for information solutions that enable them to compete in the global marketplace. To minimize risk, these solutions must build on existing investments, permit the best technology to be applied to the problem, and be manageable. Object technology, with its promise of improved productivity and quality in application development, delivers these characteristics but, to date, its deployment in commercial business applications has been limited. One possible reason is the ...

Keywords: Objects, Workflow, transaction processing



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